TOSHIBA

SERVICE MANUAL

Projection Television

56HM66 Rev.1

For Technical Bulletins, Technical Tips, or other information regarding the service of this model, visit the Toshiba America Consumer Products National Service Division website at:

www7.toshiba.com

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).

For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

IMPORTANT NOTICE

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

LEAD-FREE SOLDER

WARNING: This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. **Lead-free solder must be used in the servicing and repair of this product.**

The melting temperature of lead-free solder is higher than that of leaded solder by 86ºF to 104ºF (30ºC to 40ºC). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

SAFETY INSTRUCTION

WARNING: Before servicing this chassis, read the *"Safety Precaution"* and *"Product Safety Notice"* instructions below.

Safety Precaution

WARNING: Servicing should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.

2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.

4. Always keep tools, product components, etc. away from children as these items may cause injury.

5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on. Disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.

6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability; voltage resistance, etc. therefore, use only replacement parts

that have these same characteristics. Use only the specified parts when the ⚠ mark is indicated in the circuit diagram or parts list.

7. Part mounting and wire routing should be the same as that used originally. For safety purposes, insulating materials such as isolation tubes or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wiring is routed and clamped to avoid parts that generate heat or use high voltage. Always follow the manufactures wiring routes / dressings.

8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repair is completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc., and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, electrical leakage, or flame, which may be hazardous.

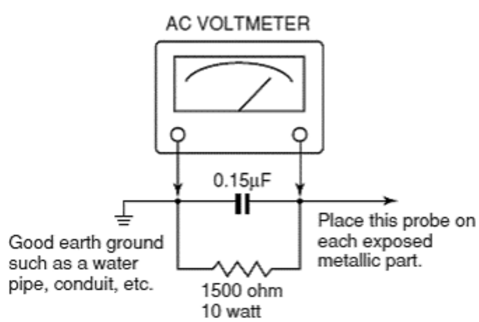
10. Always perform an AC leakage current check on the exposed metallic parts of the cabinet such as antennas, terminals, screw heads, metal overlays, control shafts, etc. to be sure that the set is safe to operate without any danger of electrical shock before returning the set to the customer.

11. To check leakage current: (After completing the work, measure the leakage current to prevent an electrical shock.)

- Plug the AC line cord directly into a 120V AC outlet. Do not use an isolation transformer for this check.

- Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner.

Connect a 1500 ohm 10 watt resistor, paralleled by a 0.15 µF, AC type capacitor, between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 µF capacitor. Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part. Voltage measured must not exceed 0.3 volts rms. This corresponds to 0.2 milliamps AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.



Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often overlooked in a visual inspection. The protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements. Electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety as specified in the parts list may create electrical shock, fire, or other hazards.

Entering Service Mode



1. Set VOLUME to minimum and press MUTE button twice on the remote control.

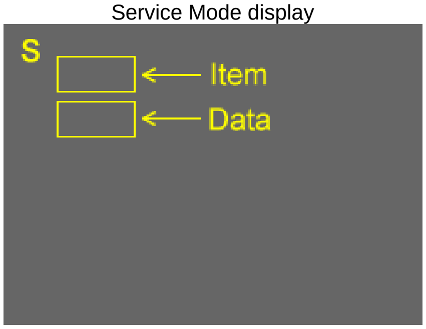
↓



2. Press MUTE button again and hold button down.

↓

Service Mode display



3. While holding the MUTE button, press MENU button on TV set.

Selecting the Adjusting Item

Every pressing of CH ▲ or ▼ button in the service mode changes the adjustment items.

Adjusting the Data

Pressing of VOLUME ▲or ▼ button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

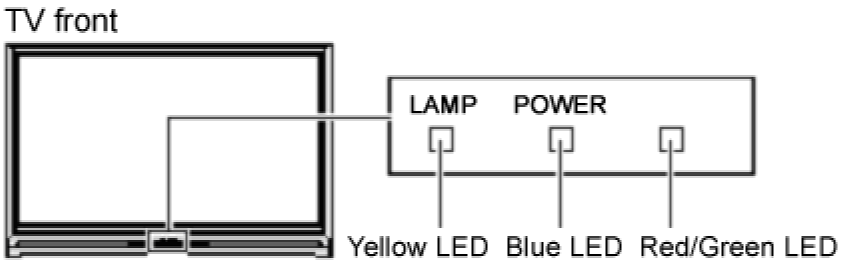
Exiting Service Mode

Pressing POWER button to turn off the TV once.

LED BLINK CODES

The yellow, blue, and red/green LED lights on the TV (at the bottom center of the TV) indicate the TV's status, as described below:

Note: If the TV loses A/C power (e.g., a power outage occurs or the power cord is unplugged), when power is restored, the yellow LED will blink while the TV is booting until the remote control is usable. This is normal and is not a sign of malfunction.



MODE	50HM66/56HM66			
	BLUE POWER	**YELLOW LAMP**	**RED/GREEN TIMER**	**VOICE ANNOUNCEMENT**
POWER ON	**ON**			
POWER OFF (Standby w/ Quick Restart OFF)				
IN LPS (Standby w/ Quick restart ON)		**Blinking**		
Waiting to re-light the lamp	**ON**	**Blinking**		
Lamp won't light		**ON**	**Blinking**	YES
Open Lamp door		**ON**		YES
Fan Stop Detection (Light Engine)			**Blinking**	YES
Fan Stop Detection (POD)	**ON**		**Blinking**	YES
Fan Stop Detection (Ballast)	**ON**		**Blinking**	YES
IIC BUS Error	**Slow blinking**			YES
Color wheel stop	**Fast blinking**		**Blinking**	YES
Abnormal temperature in Thermo Sensor	**Fast blinking**	**Blinking**	**Blinking**	YES
Seine Booting		**3 Blinks**		
SLEEP TIMER			**ON**	

Replacing the Lamp Unit

WARNING: RISK OF ELECTRIC SHOCK! TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

The light source for this TV is a mercury lamp with internal atmospheric pressure that increases during use. The lamp has a limited service life that varies depending on product use and user settings.

As is generally the case with all projection TVs that use projection lamps as a light source, the brightness of the lamp in this TV may vary somewhat over the expected service life and will generally decrease over time. Because of the many variables that can affect the useful service life of the lamp, your experience may vary from other users.

If you use the lamp beyond its service life you may notice a reduction in the colors and/or brightness of the picture. The strength of the quartz glass in the lamp will be reduced and the lamp may rupture (often making a loud noise when this happens). If the lamp ruptures, the TV will not operate until the lamp unit is replaced.

CAUTION: Always handle the lamp unit with care. The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

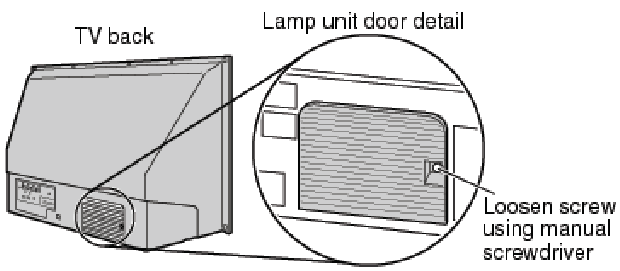
WARNING: RISK OF ELECTRIC SHOCK! TO REDUCE THE RISK OF ELECTRIC SHOCK, NEVER REMOVE TV COVERS, EXCEPT AS SPECIFIED HEREIN. REFER ALL SERVICING NOT SPECIFIED IN THIS MANUAL TO QUALIFIED SERVICE PERSONNEL. Failure to follow this WARNING may result in death or serious injury.

1. Turn off the TV and unplug the power cord.

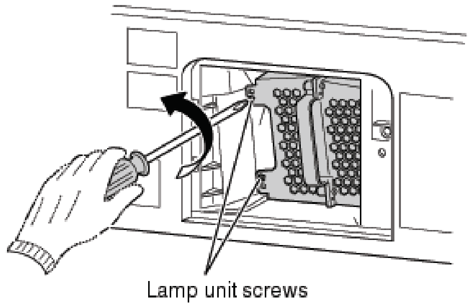
WARNING: Eye damage may result from directly viewing the light produced by this lamp. Always turn off the TV and unplug the power cord before opening the lamp unit door.

CAUTION! HOT SURFACE! Touching the lamp before it has cooled will result in severe burns. ALLOW THE LAMP TO COOL FOR AT LEAST ONE (1) HOUR BEFORE REPLACING IT.

2. Using a manual, slotted screwdriver, loosen the screw securing the lamp door and remove the door.

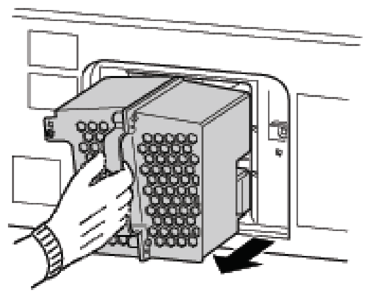


3. Using a manual Phillips screwdriver, loosen the two screws on the lamp unit.

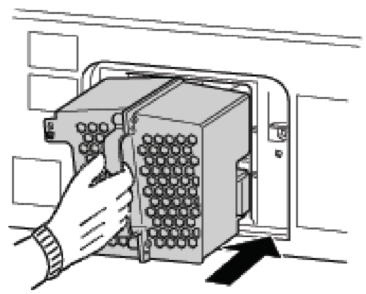


WARNING: RISK OF ELECTRIC SHOCK! The lamp unit door is provided with an interlock to reduce the risk of electric shock and excessive ultraviolet radiation. **Never defeat its purpose or attempt to service without removing the lamp unit door completely.** Failure to follow this WARNING may result in death or serious injury.

4. Grasp the lamp unit handle and gently pull the lamp unit straight out of the TV. Set the old lamp unit aside (-> "Disposing of the used lamp unit" on Owners' Manual). **NOTE: Wear soft, lint-free gloves when replacing the lamp unit.**



5. Carefully insert the new lamp unit straight into the TV until it is fully seated.



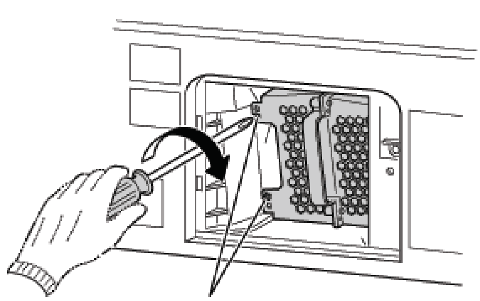
NOTE: Never subject the lamp unit to excessive shock. Never touch the lamp unit glass or otherwise get it dirty. Doing so may affect the image quality and reduce the service life of the lamp. See "Cleaning the lamp unit glass" below.

CLEANING THE LAMP UNIT GLASS

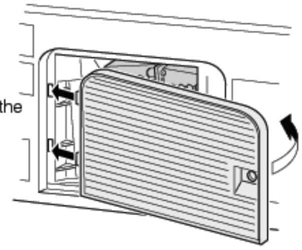
If you accidentally touch the lamp unit glass or otherwise get it dirty, wipe it with a lint-free lens cleaning cloth (such as a cloth for cleaning camera lenses or eyeglasses).

CAUTION: NEVER clean a hot lamp with any type of flammable liquid or aerosol cleaning agent. Many ordinary cleaning agents (such as glass cleaners) contain chemicals that may be flammable at certain temperatures. If the lamp unit is not allowed to cool for at least one (1) hour, such chemicals may ignite.

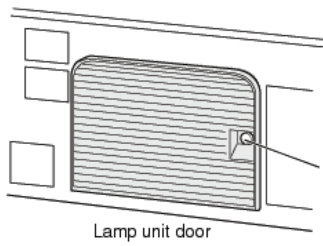
6. Using a manual Phillips screwdriver, tighten the two lamp unit screws. **NOTE: Hand-tighten only. Do not use an electric screwdriver. Make sure the lamp unit and screws are installed securely. Otherwise, the TV may no turn on and the lamp life may be shortened.**



7. Reattach the lamp unit door, making sure to insert the hooks on the left side of the door inside the opening in the TV cabinet.



8. Replace the door screw and tighten using a manual screwdriver. **NOTE: Make sure the lamp unit door is installed securely; otherwise, the TV may not turn on**.



9. Plug in the power cord and turn on the TV. After the initial warm-up period (which may take several seconds for full picture brightness), the TV should operate normally. If any of the following conditions exist, turn off the TV, unplug the power cord, and repeat steps 1-9 to ensure that the lamp unit and lamp unit door are installed correctly:

   - No picture
   - Dark picture
   - TV will not turn on

NOTE: If, after repeating steps 1-9, the problem still exists:

- In the U.S., call TACP Consumer Solutions at 1-800-631-3811.
- In Canada, locate the nearest Toshiba authorized service depot by directing your web browser to www.toshiba.ca; click "Home Entertainment", and then click "Support".

Disposing of the Used Lamp Unit

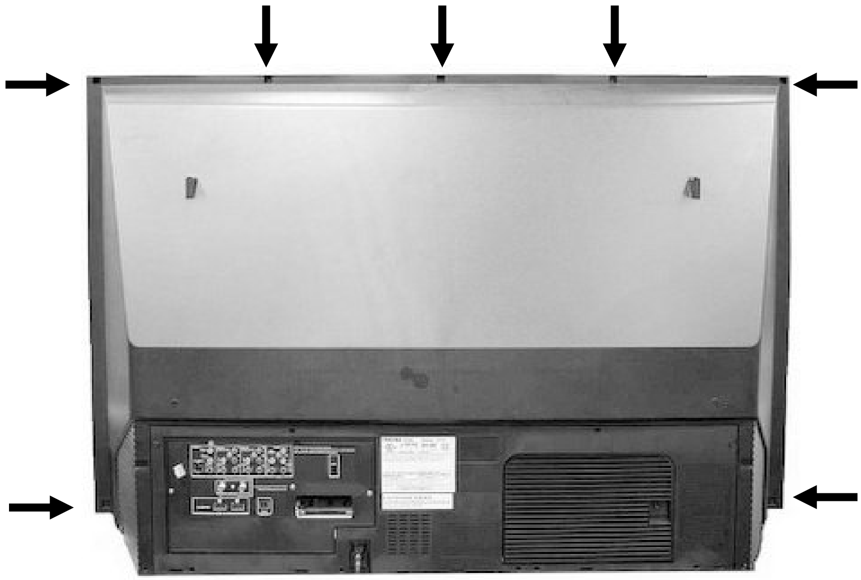
CAUTION: Always handle the lamp unit with care. The lamp unit in this TV was designed for safe replacement by consumers; however, if the lamp unit is subjected to intentional or accidental abuse (such as excessive mechanical abuse or handling by children or pets), the unit may break, exposing sharp edges or pinch points.

- Place the used lamp unit in the empty box from the new unit.
- Keep the lamp unit out of reach of children and pets.
- Dispose of the used lamp unit by the approved method for your area.

NOTE: The lamp unit contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (www.eiae.org).

Front Bezel Removal

1. Remove 7 Screws from cabinet Back



2. Remove Front Plate





3. Remove 2 Screws



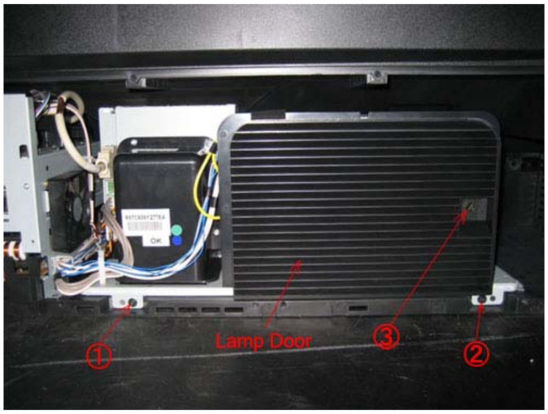
4. Pull front Bezel up then out



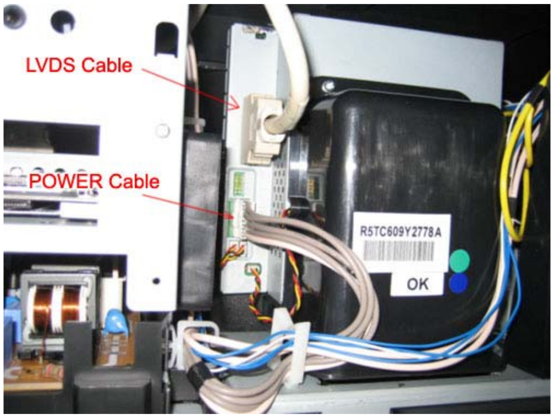
LIGHT ENGINE REPLACEMENT

1. Remove the back cover.

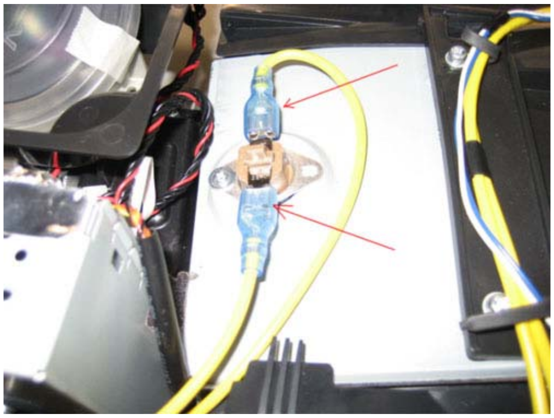
2. Remove the lamp cover by removing screws 1, 2, and 3.



3. Remove the LVDS and POWER cables.



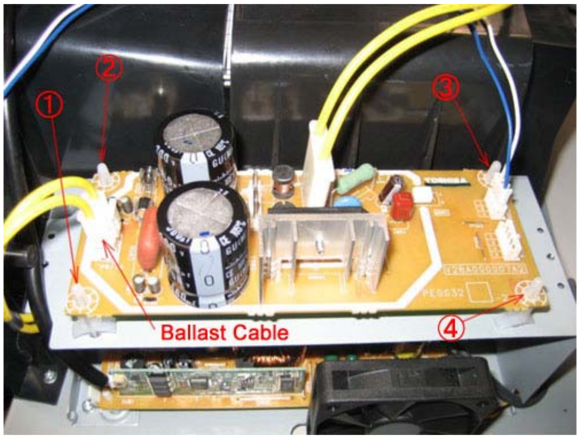
4. Unfasten the thermostat lead wires. (Leave the thermostat Breaker.)



5. Remove the door SW unit by unscrewing as shown below.



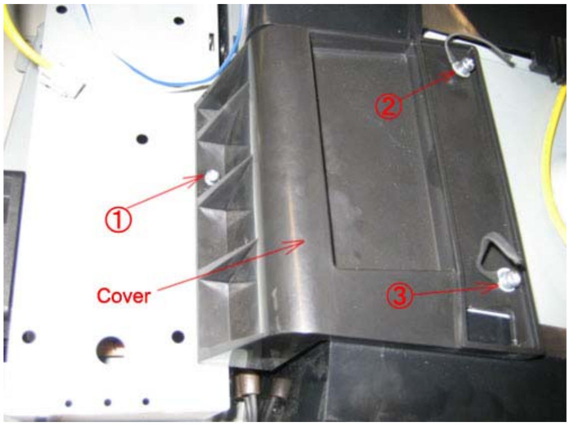
6. Disconnect the ballast cable and remove the ballast unit from the retaining clips 1 - 4.



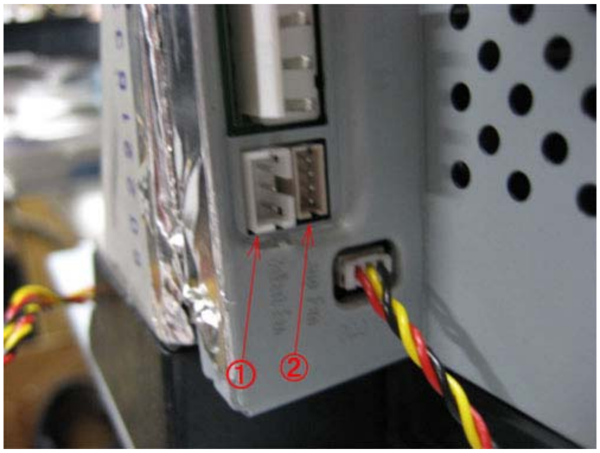
7. Remove the light engine. Reassemble the light engine by following steps 1 – 7 in reverse.

Lamp Fan Replacement

1. Remove screws 1, 2, and 3 securing the lamp fan cover and remove the lamp fan cover.



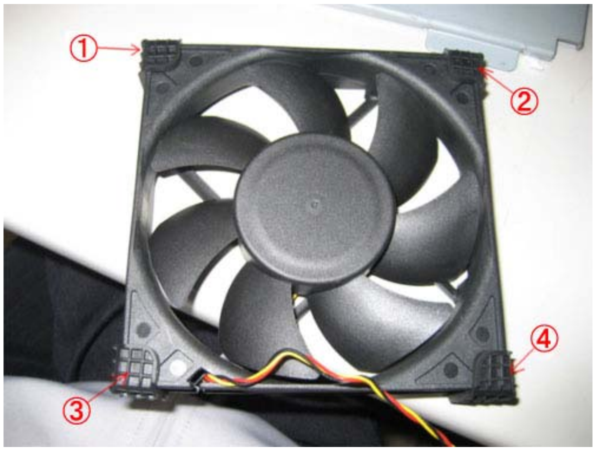
2. Remove the Ballast Fan cable (1) and Lamp Fan cable (2).



3. Remove the 2 screws securing the Lamp fan and remove the lamp fan.



4. Remove the 4 rubber corners from the old lamp fan and place them on the new lamp fan.



5. Assemble the new fan to the light engine by following steps 1 – 4 in reverse.

DMD Fan Replacement

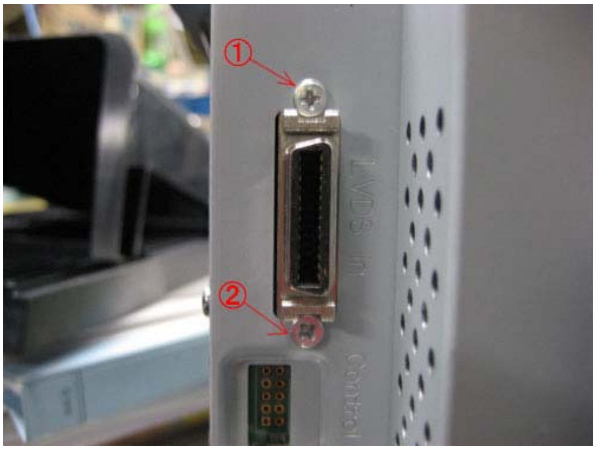
1. Remove the DMD Fan cable.



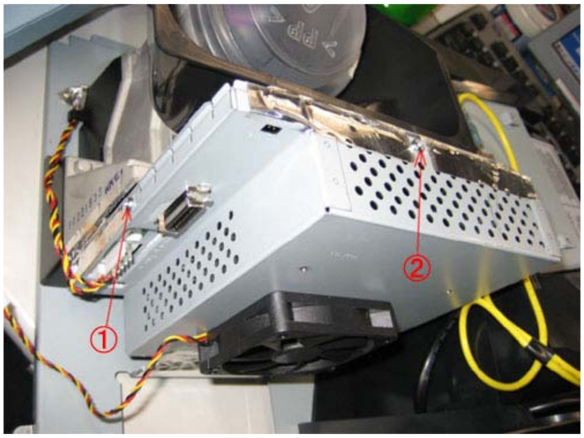
2. Remove the DMD Fan casing by removing screws 1, 2, and 3.



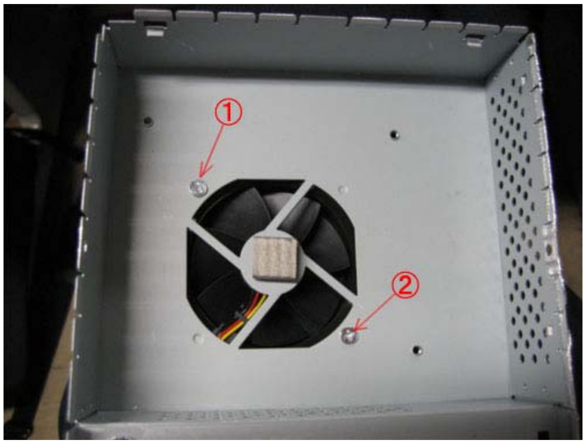
3. Remove the 2 screws securing the LVDS connector.



4. Remove the DMD shield case by removing screws 1 and 2.



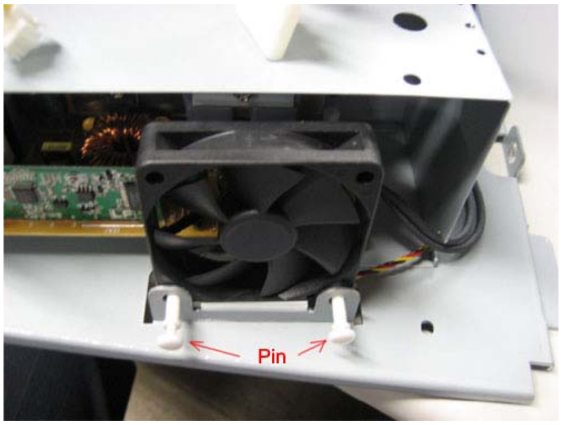
5. Remove the DMD Fan by removing screws 1 and 2.



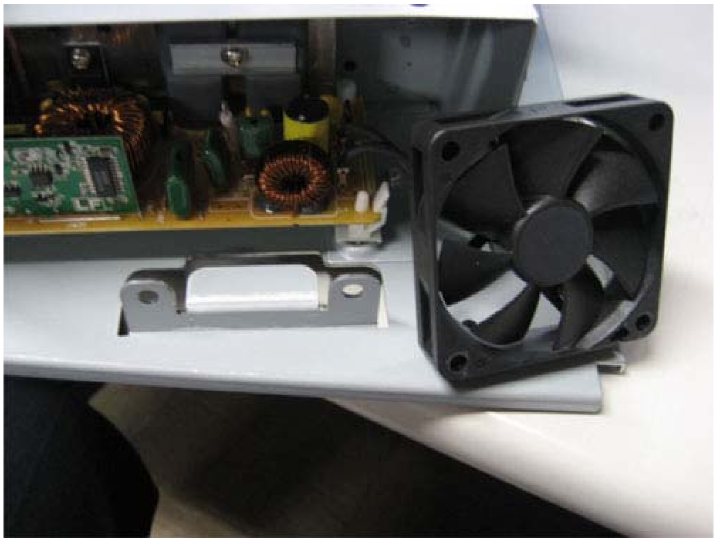
6. Assemble the new DMD fan by following steps 1 – 5 in reverse.

Ballast Fan Replacement

1. Remove the retaining pins from the fan.



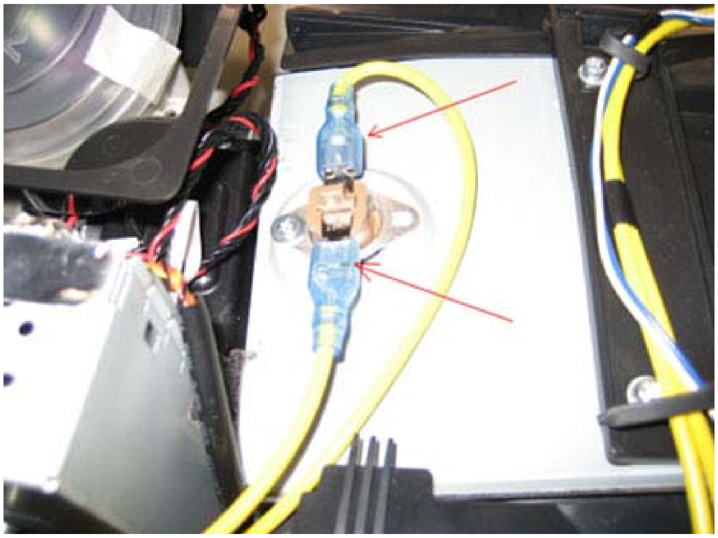
2. Replace the Ballast Fan.



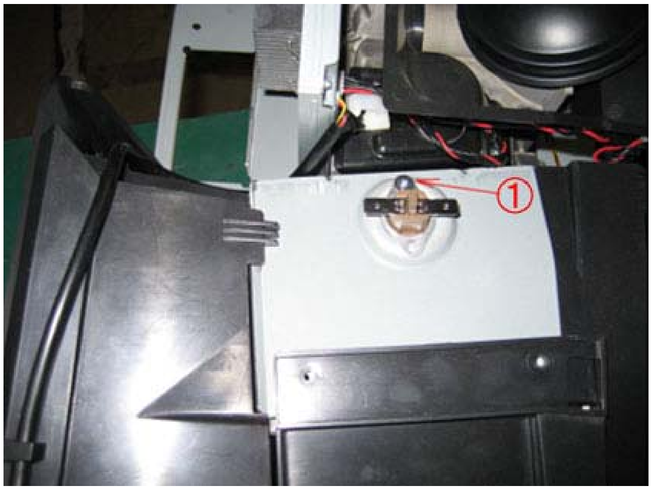
3. Fix the Ballast Fan with two pins.

Thermostat Breaker Replacement

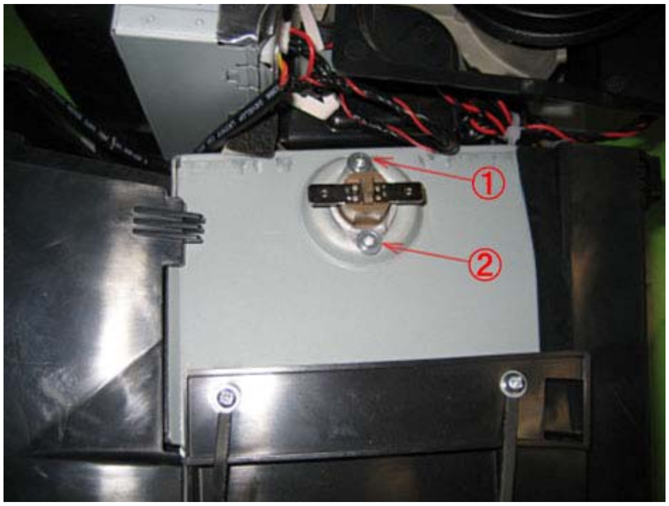
1. Disconnect the thermostat lead wires.



2. Replace the Thermostat Breaker by removing the retaining screw.

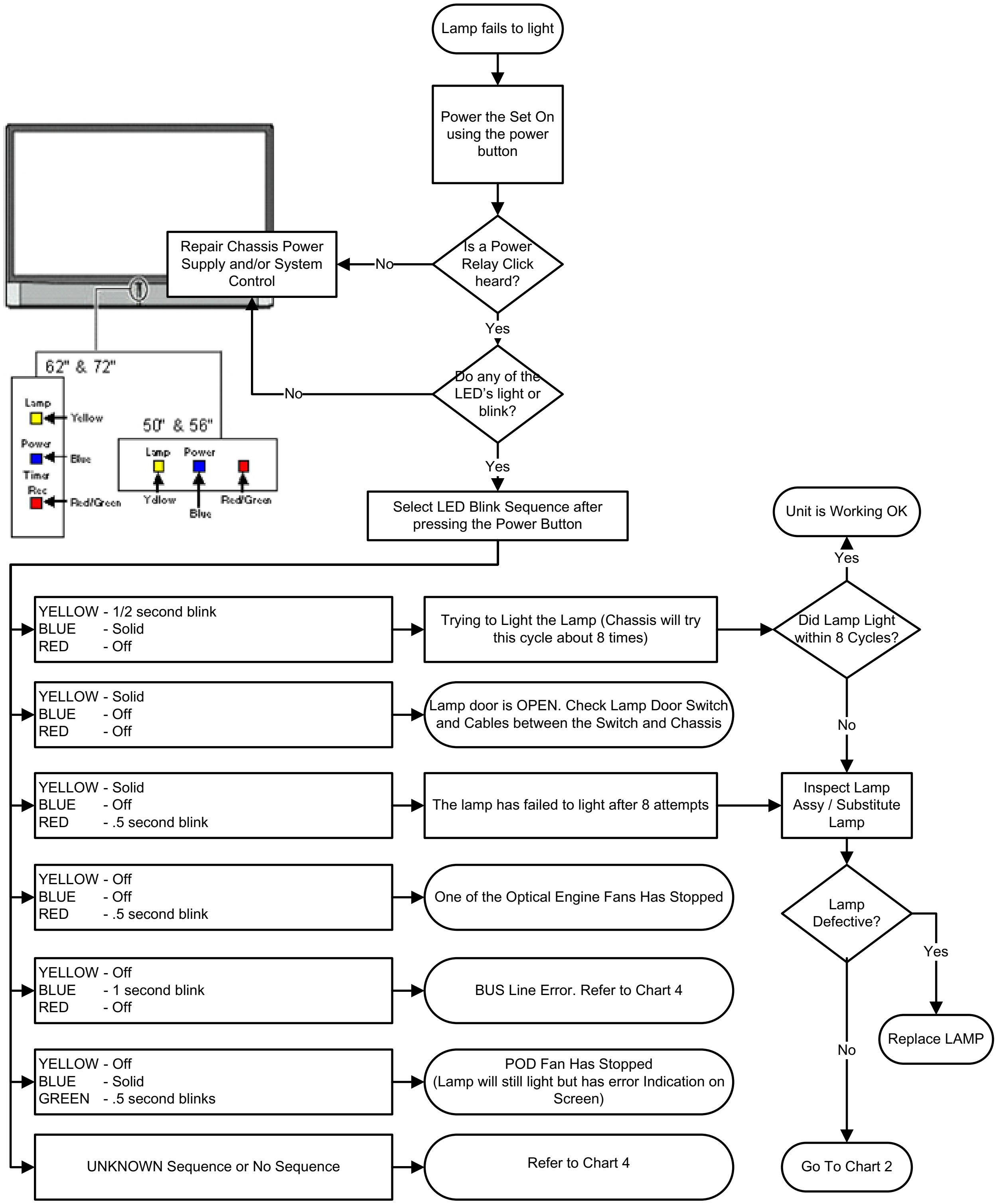


(Thermostat Breaker is secured by 2 screws in some production units.)

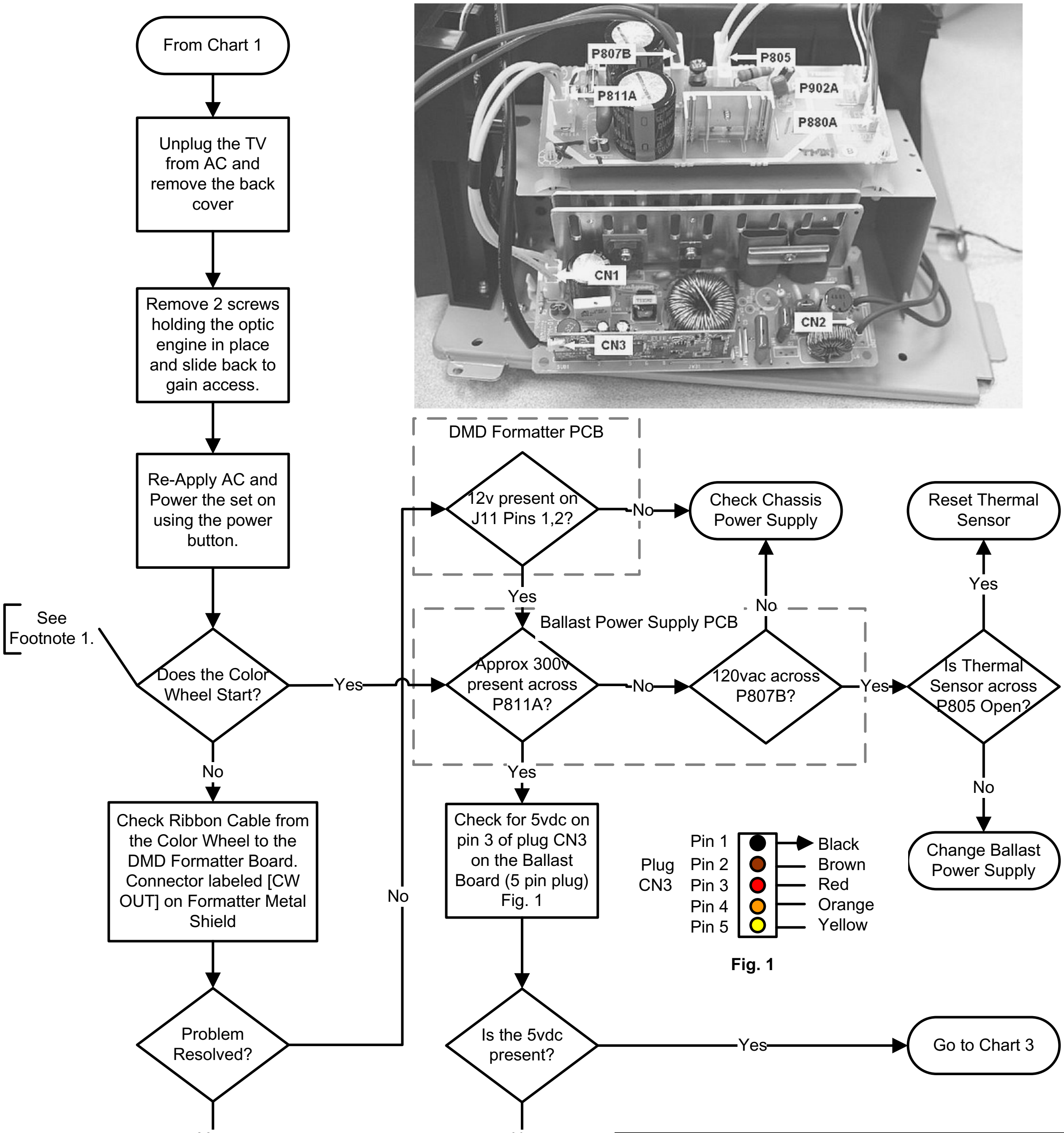


3. Reconnect the thermostat lead wires.

Troubleshooting Flowchart 2006 DLP
“Lamp Fails To Start” (Chart 1)



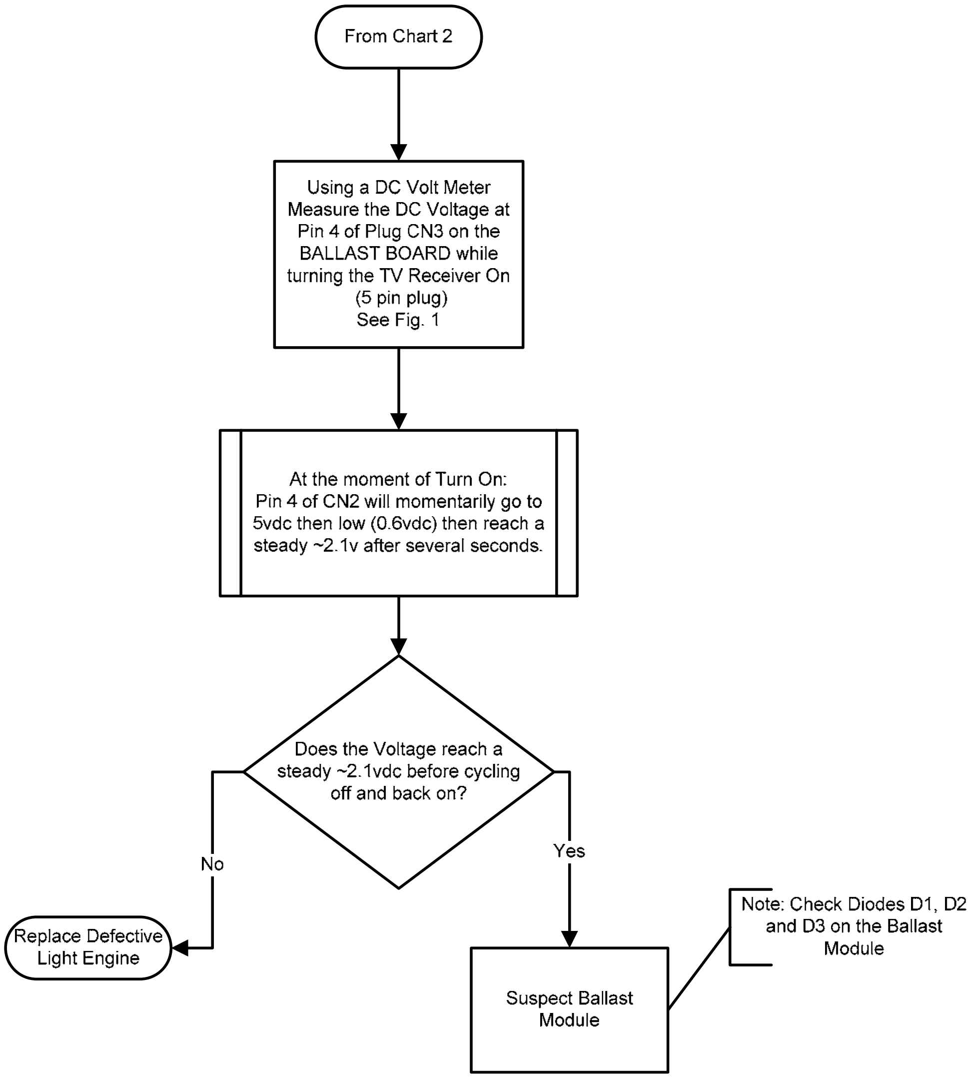
Troubleshooting Flowchart 2006 DLP "Lamp Fails To Start" (Chart 2)



Replacing the Light Engine under Warranty requires a concession number to be obtained from Technical Support. 1-800-345-9785

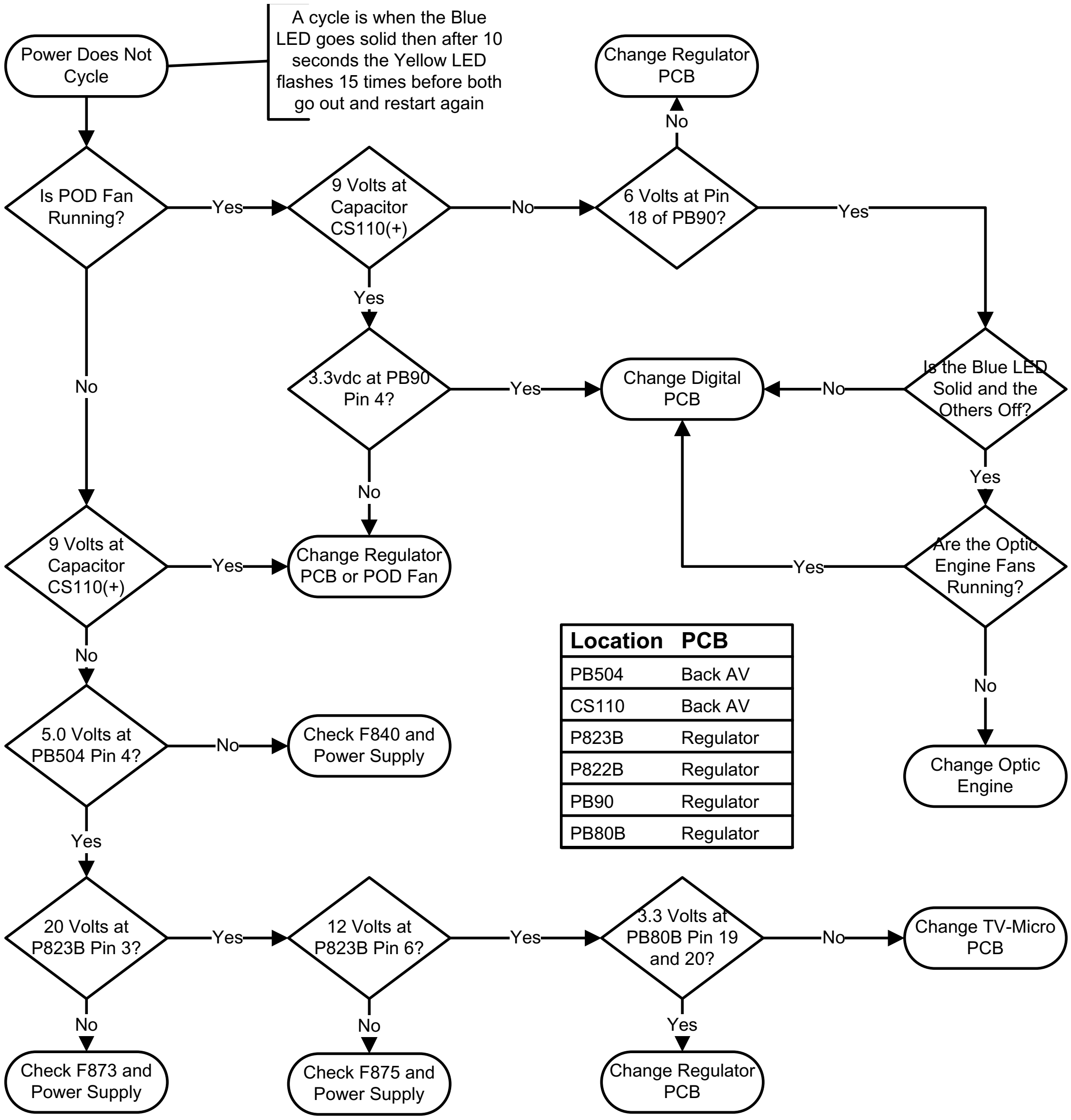
Footnote 1. The Color Wheel will emit a high pitched whine when the TV Receiver is first turned on.

Troubleshooting Flowchart 2006 DLP "Lamp Fails To Start" (Chart 3)

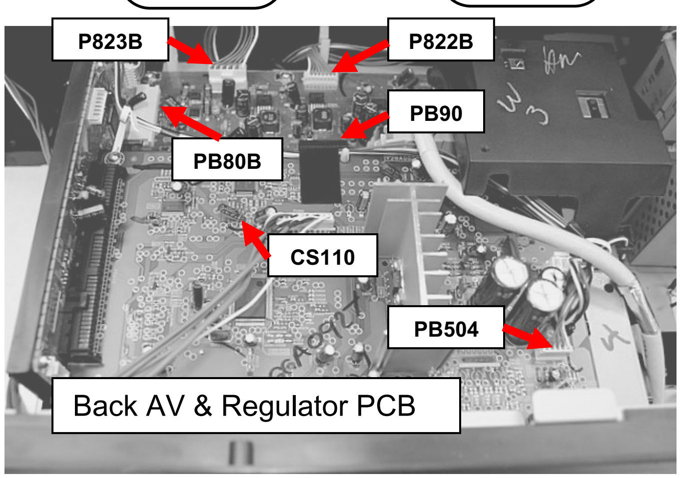


Replacing the Light Engine under Warranty requires a concession number to be obtained from Technical Support. 1-800-345-9785

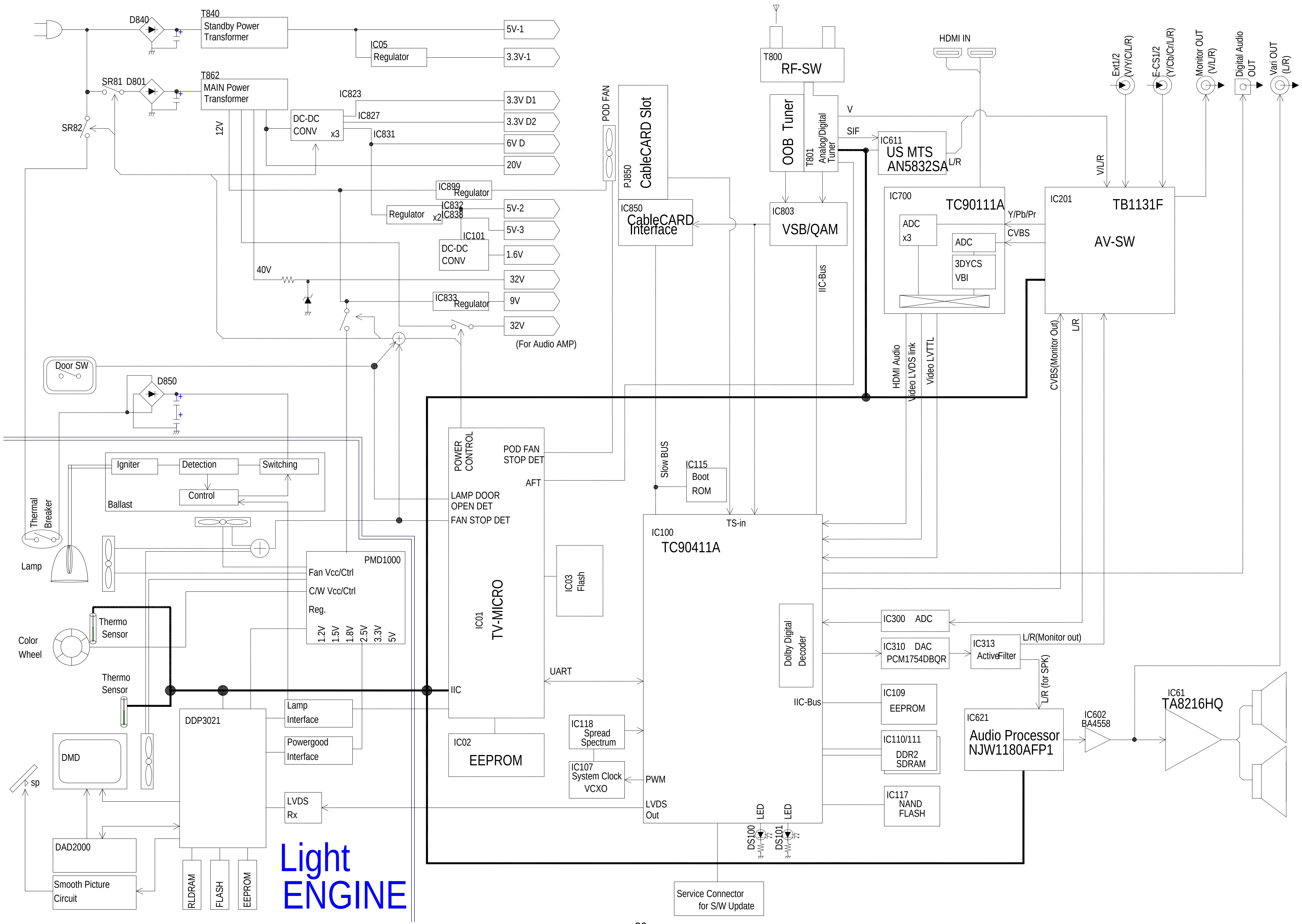
Troubleshooting Flowchart 2006 DLP
“Dead / Does not Cycle” (Chart 4)



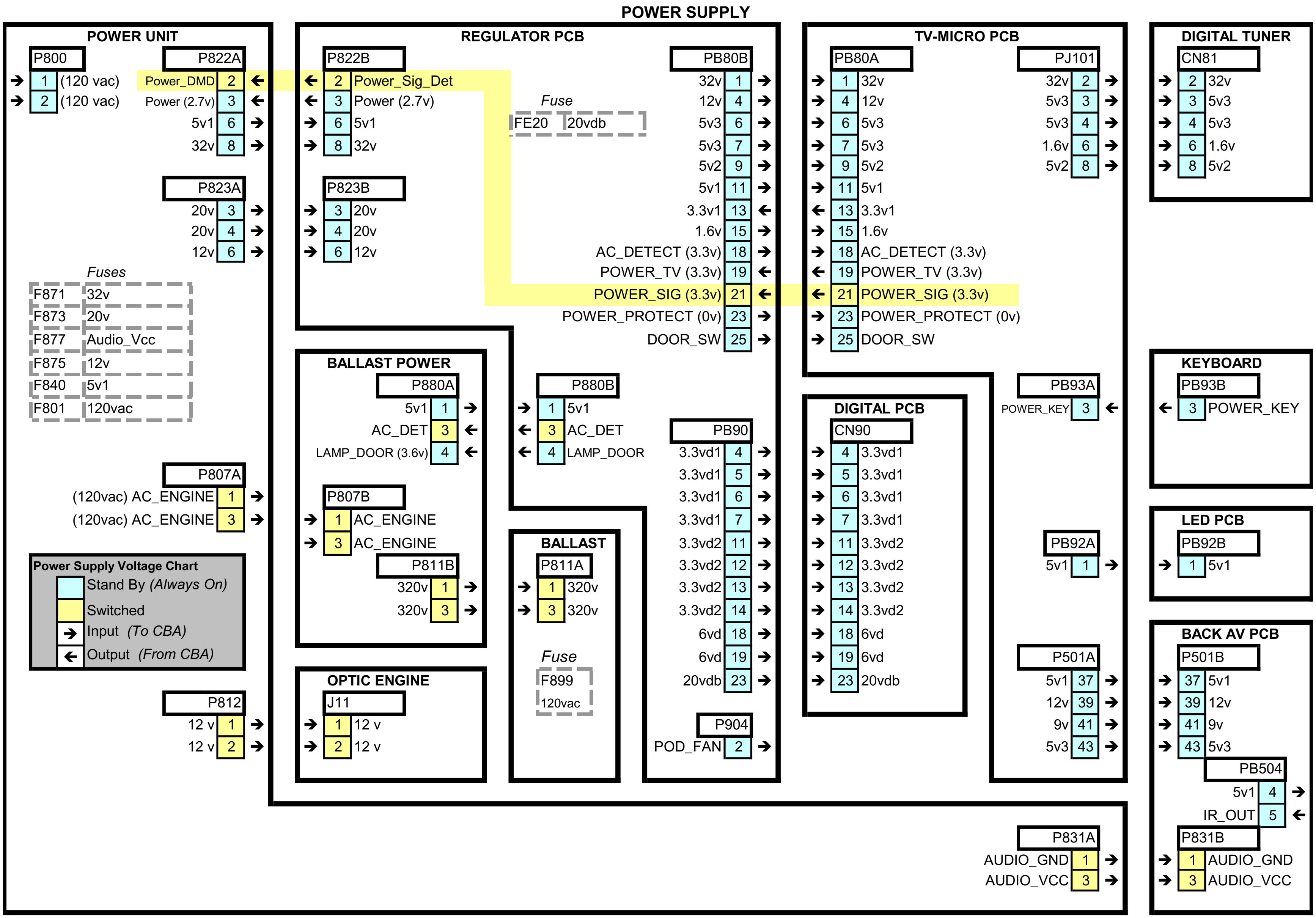
Location	PCB
PB504	Back AV
CS110	Back AV
P823B	Regulator
P822B	Regulator
PB90	Regulator
PB80B	Regulator



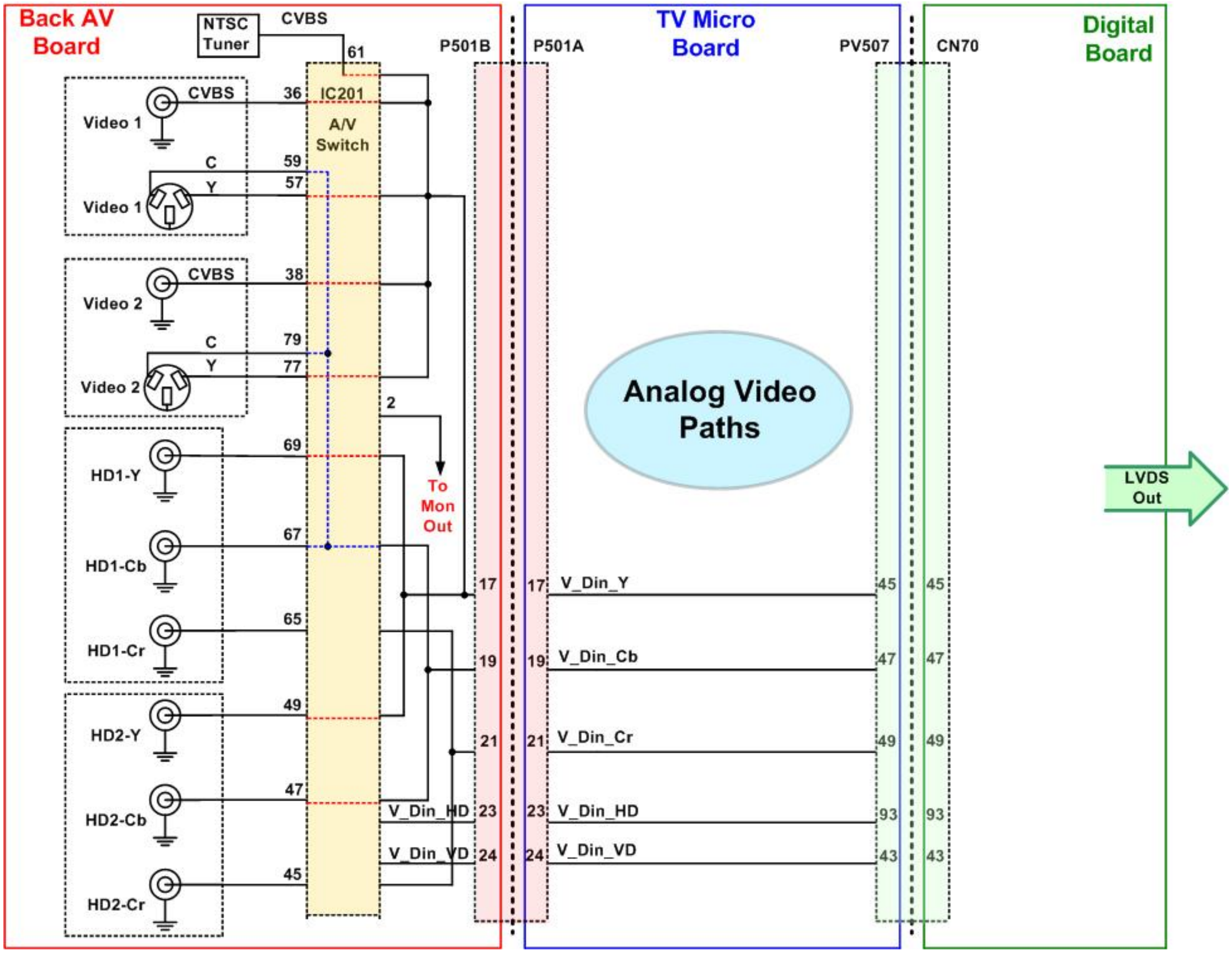
BLOCK DIAGRAM



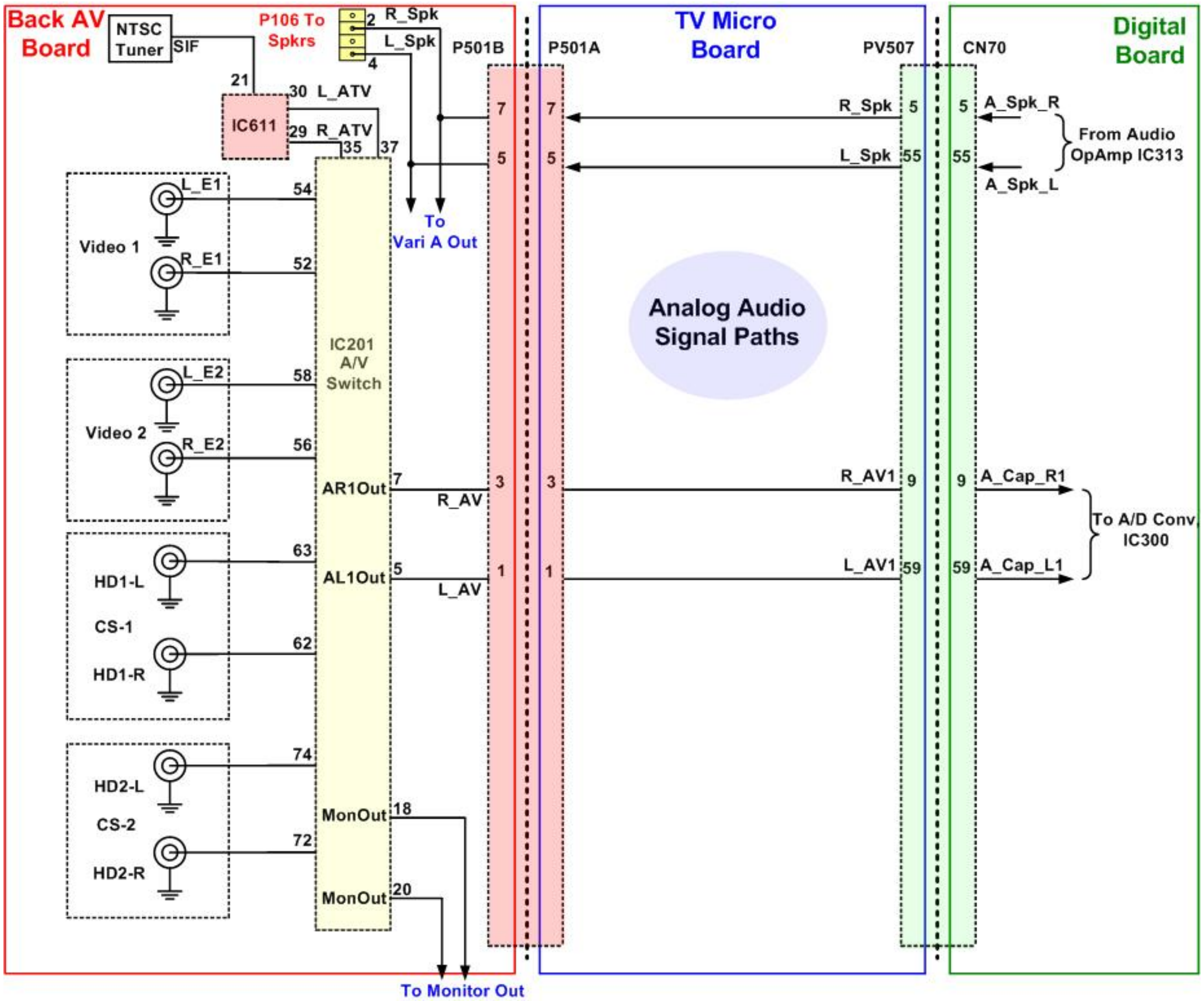
56HM66 Wiring Diagram



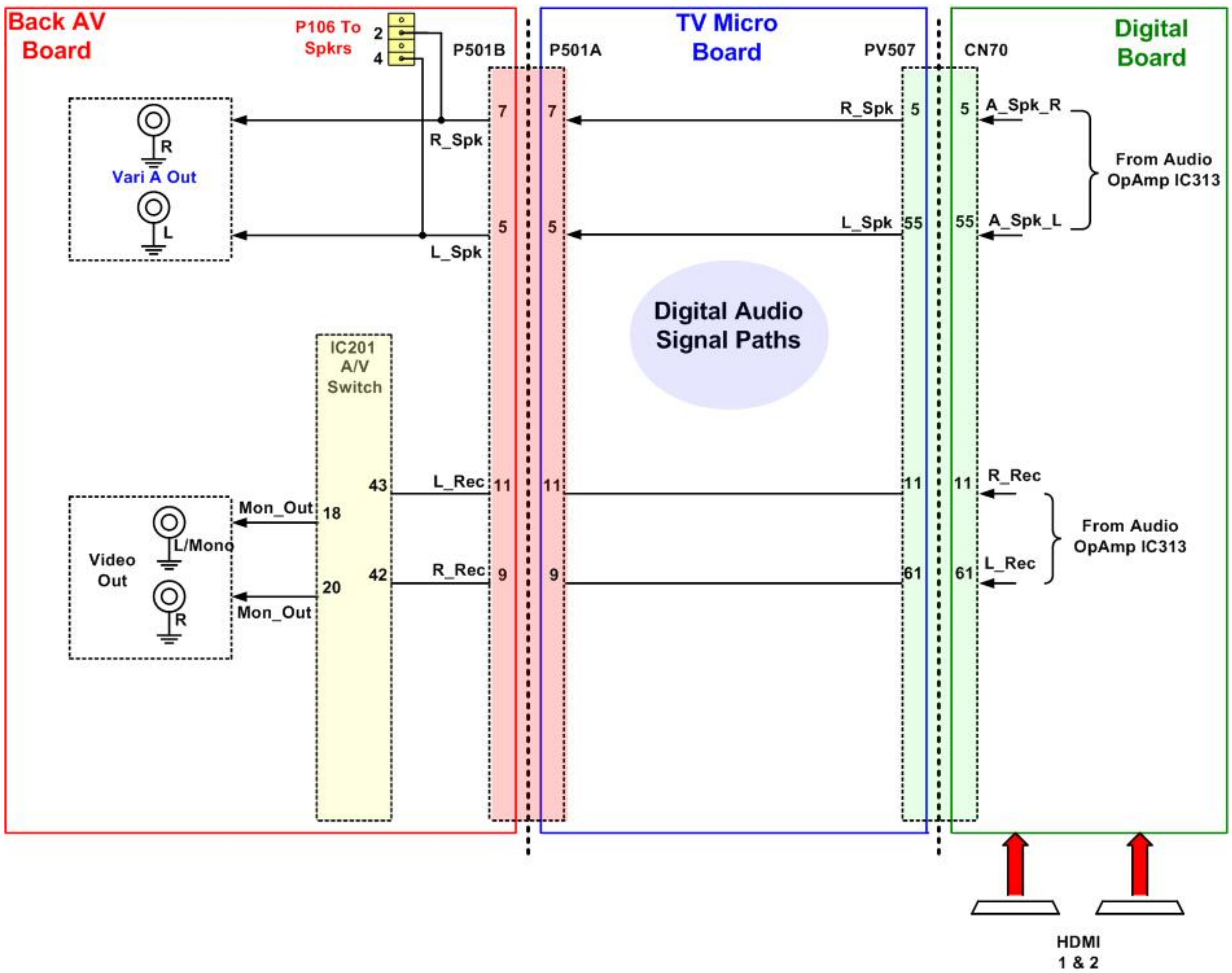
Video Signal Paths (Analog)

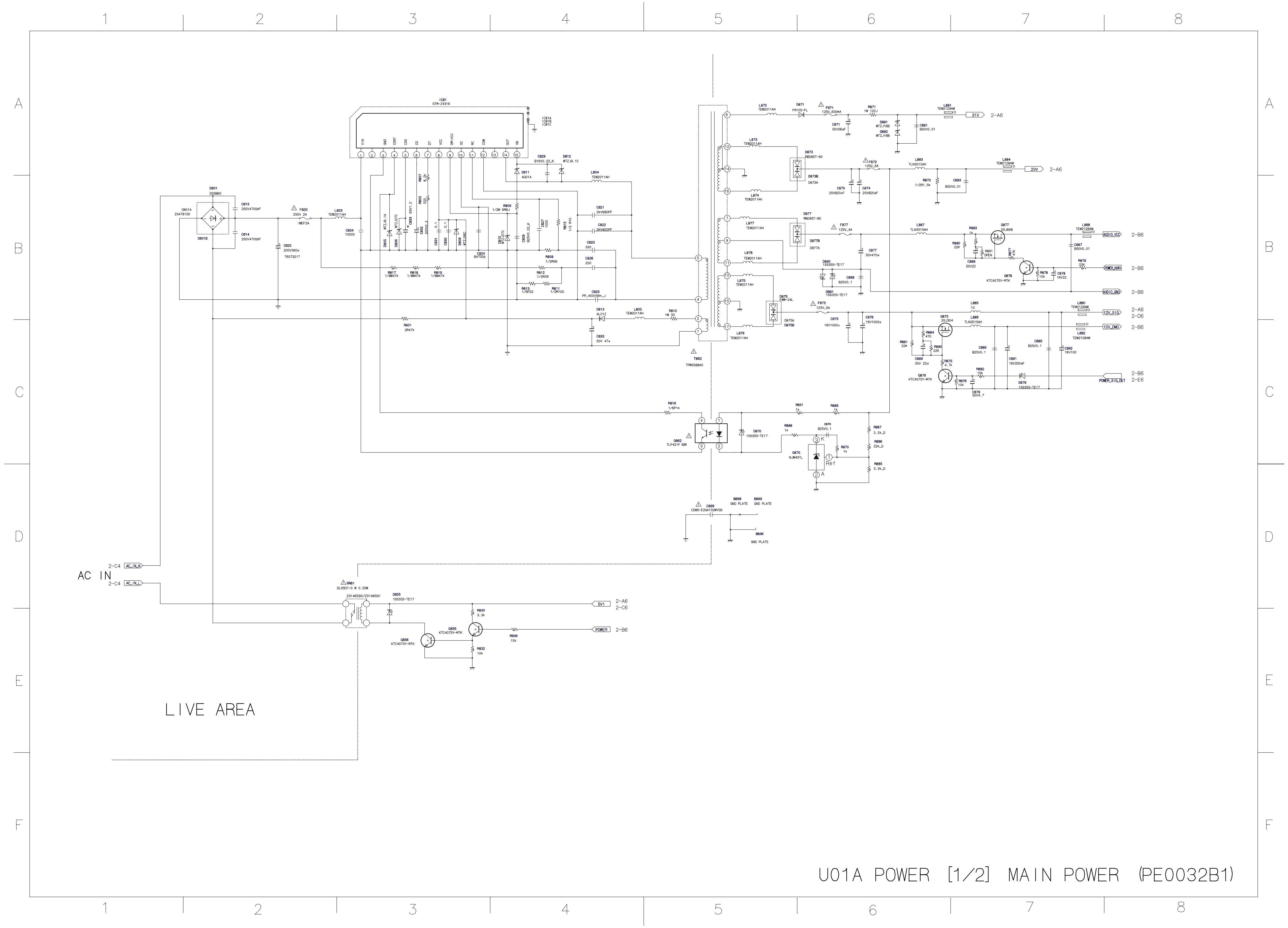


Audio Signal Paths (Analog)

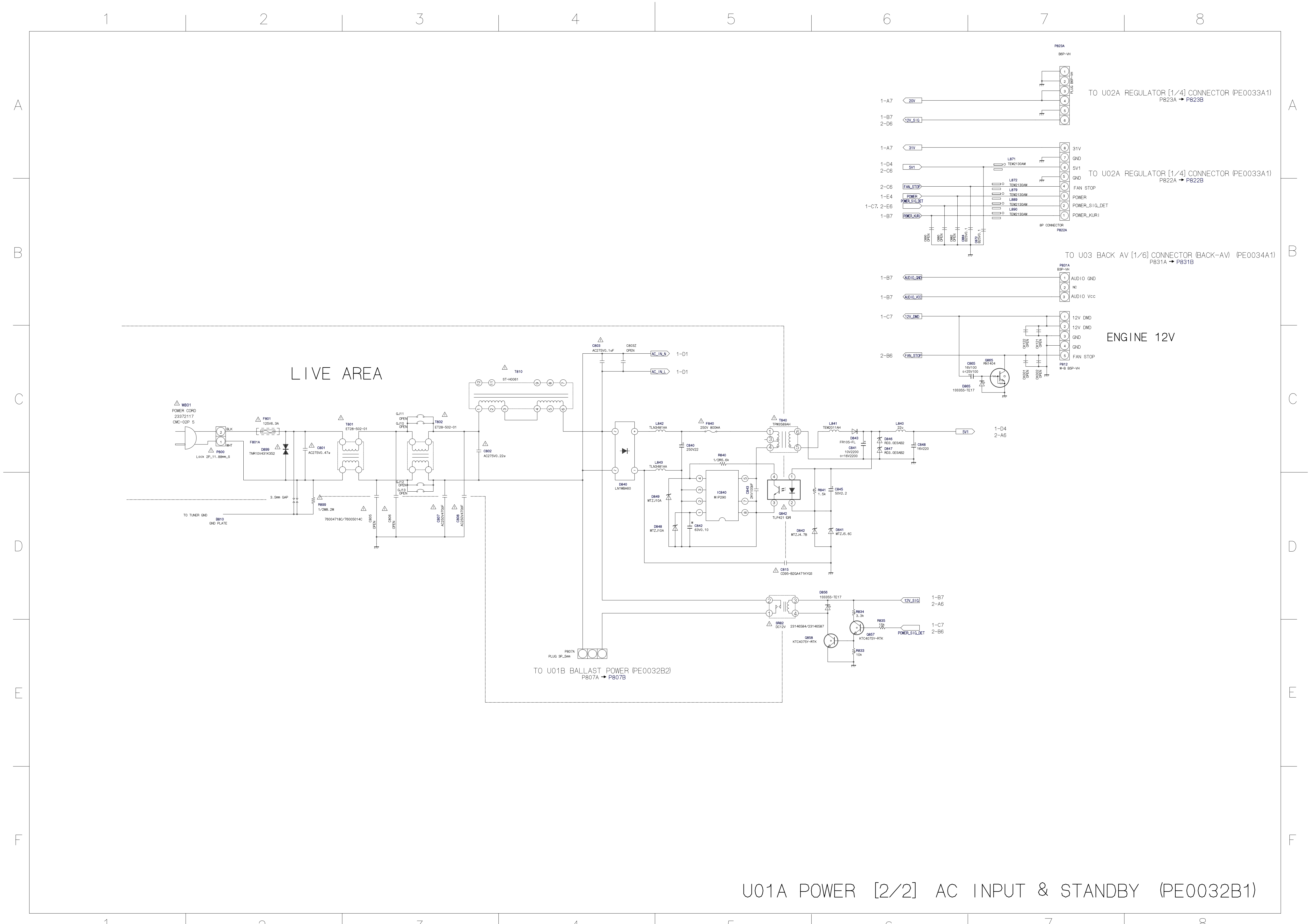


Audio Signal Paths (Digital)

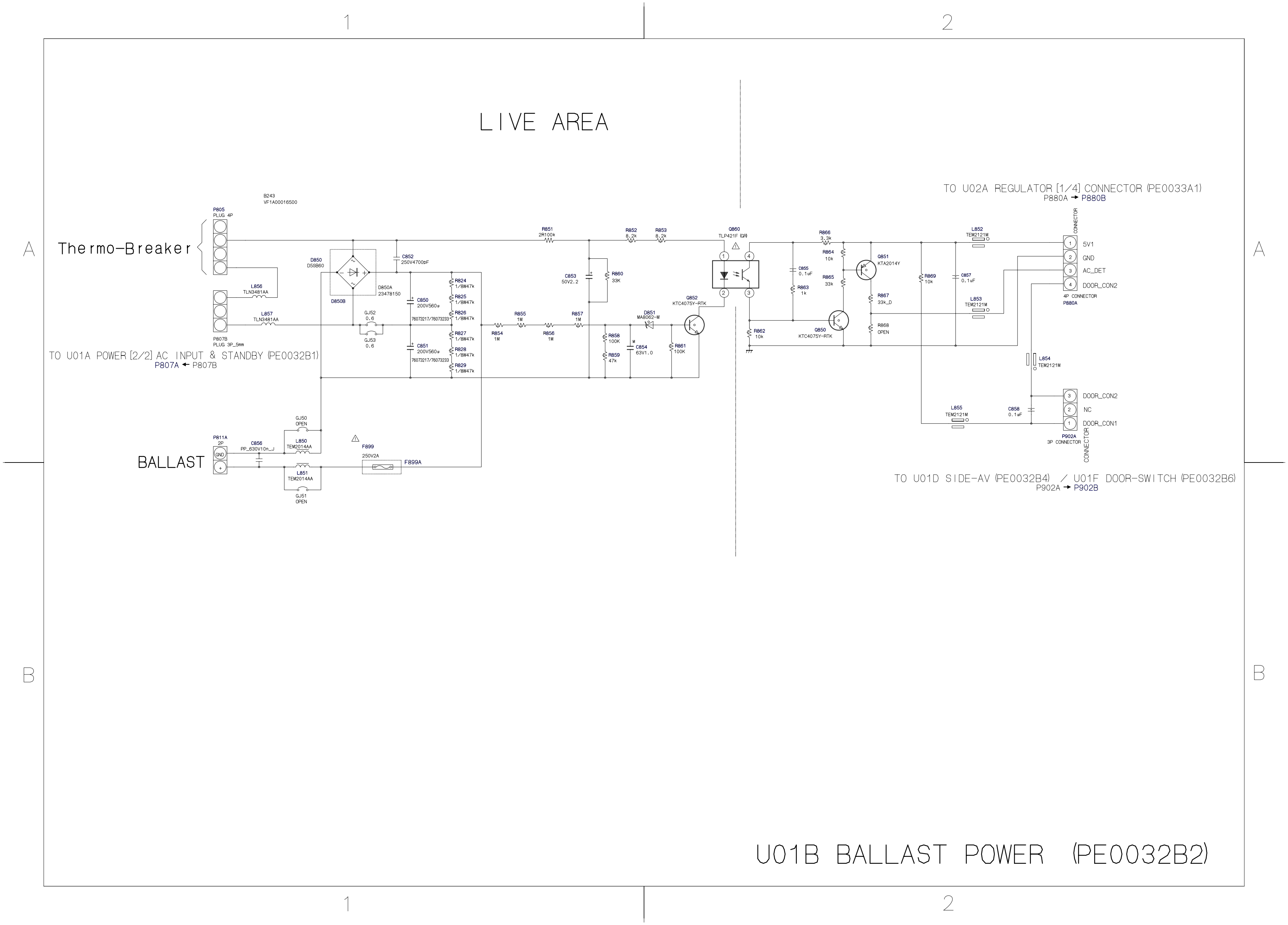




U01A POWER [1/2] MAIN POWER (PE0032B1)



U01A POWER [2/2] AC INPUT & STANDBY (PE0032B1)


LIVE AREA
Thermo-Breaker
BALLAST
TO U01A POWER [2/2] AC INPUT & STANDBY (PE0032B1)
P807A ← P807B
TO U02A REGULATOR [1/4] CONNECTOR (PE0033A1)
P880A → P880B
TO U01D SIDE-AV (PE0032B4) / U01F DOOR-SWITCH (PE0032B6)
P902A → P902B
5V1
GND
AC_DET
DOOR_CON2
NC
DOOR_CON1
U01B BALLAST POWER (PE0032B2)

Location	Part No.	Description
A100	75002252	CABINET/RACK BASE ASSEMBLY
A110	75002253	CABINET/RACK CENTER DIVIDER ASSY
A201	75002255	CABINET/RACK BEZEL ASSY
A205	75002254	CABINET/RACK BACK COVER PROP
A235	75002051	SPK GRILLE COVER
A333	75002050	PIECE AV MOUNT ASSY
A338	75002052	PIECE AV BUTTONS.
A621	23717443	SCREW, SCREW, AV BOARD ECO
A811	75002133	PAD CENTER PARTITION
B810	23165495	TERMINAL, EARTH PHI3, MET31-0332
B896	23165495	TERMINAL, EARTH PHI3, MET31-0332
B898	23165495	TERMINAL, EARTH PHI3, MET31-0332
B899	23165495	TERMINAL, EARTH PHI3, MET31-0332
C801	76503508	MT PLA PCX2 337 11474
C802	76503507	PLASTIC FILM, AC275V 0.22UF K
C803	76503506	PLASTIC FILM, AC275V 0.1UF K
C807	76092565	CERAMIC DISC, AC250V B 470PF K
C808	76092565	CERAMIC DISC, AC250V B 470PF K
C813	76092281	CERAMIC DISC, AC250V E 4700PF
C814	76092281	CERAMIC DISC, AC250V E 4700PF
C815	76092565	CERAMIC DISC, AC250V B 470PF K
C820	76073217	ELECTROLYTIC, 200V 560UF M
C821	76092343	CERAMIC DISC, 2KV 680PF K
C822	76092344	CERAMIC DISC, 2KV 820PF K
C823	76092339	CERAMIC DISC, 2KV 330PF K
C824	76109472	CERAMIC CHIP, 50V B 4700PF K
C825	76829563	PLASTIC FILM, 400V 0.056UF J
C826	76092337	CERAMIC DISC, 2KV 220PF K
C827	76214102	CERAMIC DISC, 500V B 1000PF K
C828	76092179	CERAMIC CHIP, 25V B 0.22UF K
C829	76092463	CERAMIC CHIP, 16V B 0.22UF K
C830	76285104	CERAMIC CHIP, 50V B 0.1UF K
C831	76285104	CERAMIC CHIP, 50V B 0.1UF K
C832	76678229	ELECTROLYTIC, 200V 2.2UF M
C833	76503053	PLASTIC FILM, 63V 1UF J
C834	76214103	CERAMIC DISC, 500V B 0.01UF K
C835	76073089	ELECTROLYTIC, 50V 47UF M 3A
C840	76679220	ELECTROLYTIC, 250V 22UF M 3A
C841	76073097	ELECTROLYTIC, 10V 2200UF M 3A
C842	76503041	PLASTIC FILM , 63V 0.1UF J
C843	76092333	CERAMIC DISC, 2KV 100PF K
C845	76669229	ELECTROLYTIC, 50V 2.2UF M
C848	76073039	ELECTROLYTIC, 16V 220UF M 3A
C850	76073217	ELECTROLYTIC, 200V 560UF M
C851	76073217	ELECTROLYTIC, 200V 560UF M
C852	76092281	CERAMIC DISC, AC250V E 4700PF
C853	76073082	ELECTROLYTIC, 50V 2.2UF M 3A
C854	76503053	PLASTIC FILM, 63V 1UF J
C855	76092730	CERAMIC CHIP, 16V B 0.1UF K
C856	76820103	PLASTIC FILM, 630V 0.01UF J
C857	76092730	CERAMIC CHIP, 16V B 0.1UF K
C858	76092730	CERAMIC CHIP, 16V B 0.1UF K
C865	76073038	ELECTROLYTIC, 16V 100UF M 3A
C870	76092178	CERAMIC CHIP, 25V B 0.1UF K
C871	76073197	ELECTROLYTIC CE04P 50V 56UF M 3A
C872	76092178	CERAMIC CHIP, 25V B 0.1UF K
C873	76073171	ELECTROLYTIC, 25V 820UF M 3A
C874	76073171	ELECTROLYTIC, 25V 820UF M 3A

Location	Part No.	Description
C875	76073155	ELECTROLYTIC, 16V 1000UF M 3A
C876	76073155	ELECTROLYTIC, 16V 1000UF M 3A
C877	76073205	ELECTROLYTIC CE04P 50V 470UF M 3A
C878	76073035	ELECTROLYTIC, 16V 22UF M 3A
C879	76073084	ELECTROLYTIC, 50V 4.7UF M
C881	76109103	CERAMIC CHIP, 50V B 0.01UF K
C883	76109103	CERAMIC CHIP, 50V B 0.01UF K
C884	76092178	CERAMIC CHIP, 25V B 0.1UF K
C885	76092178	CERAMIC CHIP, 25V B 0.1UF K
C886	76092178	CERAMIC CHIP, 25V B 0.1UF K
C887	76109103	CERAMIC CHIP, 50V B 0.01UF K
C888	76073087	ELECTROLYTIC, 50V 22UF M 3A
C889	76073087	ELECTROLYTIC, 50V 22UF M 3A
C891	76073152	ELECTROLYTIC, 16V 330UF M 3A
C892	76073038	ELECTROLYTIC, 16V 100UF M 3A
C898	76092178	CERAMIC CHIP, 25V B 0.1UF K
C899	76092567	CERAMIC DISC, AC250V E 1000PF M
D801	23362200	DIODE, D5SB60, 7009F07
D801B	23717240	SCREW
D805	23357850	DIODE, ZENER, MTZJ9.1A
D806	23357893	DIODE, ZENER, MTZJ27C
D809	23357905	DIODE, ZENER, MTZJ36C
D810	23357893	DIODE, ZENER, MTZJ27C
D811	23357511	DIODE, AG01A
D812	23357852	DIODE, ZENER, MTZJ9.1C
D813	23357512	DIODE, AL01Z
D840	23362046	DIODE, LN1WBA60 4101
D841	23357838	DIODE, ZENER, MTZJ5.6C
D842	23357831	DIODE, ZENER, MTZJ4.7B
D843	23357366	DIODE, FR105-B5
D846	23357684	DIODE, ZENER, RD3.0ESA B2
D847	23357684	DIODE, ZENER, RD3.0ESA B2
D848	23357853	DIODE, ZENER, MTZJ10A
D849	23357853	DIODE, ZENER, MTZJ10A
D850	23362200	DIODE, D5SB60, 7009F07
D850B	23717240	SCREW
D851	23357745	DIODE, ZENER, MA8056-M
D855	23357703	DIODE, 1SS355
D856	23357703	DIODE, 1SS355
D865	23357703	DIODE, 1SS355
D870	23357703	DIODE, 1SS355
D871	23357366	DIODE, FR105-B5
D873	23362197	DIODE, SCHOTTKY, RB085T-60
D873B	23717240	SCREW
D875	75002031	DIODE, FMW-24L
D875B	23717240	SCREW
D877	23362210	DIODE, SCHOTTKY, RB095T-90
D877B	23717240	SCREW
D879	23357703	DIODE, 1SS355
D881	23357874	DIODE, ZENER, MTZJ16B
D882	23357874	DIODE, ZENER, MTZJ16B
D890	23357703	DIODE, 1SS355
D891	23357703	DIODE, 1SS355
D899	76019485	VARISTOR, TNR10V431K
DB81	23358619	DIODE, LED, SLA580BCT
DB82	23311148	LAMP, YELLOW, SLI-580YT
DB83	23358602	DIODE, LED RED-GRN, SPR-54MVWFLMN
F801	23144318	FUSE, CARTRIDGE, 125V 6.3A, 5.2X20

Location	Part No.	Description
F801A	23165433	FUSE HOLDER, 5.2
F820	23144378	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 2A
F840	23144374	FUSE, RADIAL LEAD SUB-MINIATUR 250V 800MA
F871	23144707	FUSE, AXIAL, 125V 0.63A
F873	23144715	FUSE, CARTRIDGE 5.2X20, 125V 5A
F875	23144715	FUSE, CARTRIDGE 5.2X20, 125V 5A
F877	23144714	FUSE, AXIAL, 125V 4A
F899	23144326	FUSE, CARTRIDGE, 250V 2A, 5.2X20
F899A	23165433	FUSE HOLDER, 5.2
IC81	75002037	IC, STR-Z4316(LF1503)
IC840	23135038	IC, MIP2900MPSCF
K271	75002250	OPTICAL ENGINE, 95.L7003G002
K501	75002251	SCREEN 56K6M LENTI SHEET
K502	23311157	SCREEN, SCREEN56K5NF
K601	75002249	MIRROR, 56G6M3
L803	23103302	FERRITE CHOKE, TEM2011AH
L804	23103302	FERRITE CHOKE, TEM2011AH
L805	23103302	FERRITE CHOKE, TEM2011AH
L840	23289996	COIL, PEAKING, TRF4220AF
L841	23103302	FERRITE CHOKE, TEM2011AH
L842	23248386	COIL, CHOKE, TLN3481AA
L843	23248386	COIL, CHOKE, TLN3481AA
L850	23103307	FERRITR CHOKE, TEM2014AA
L851	23103307	FERRITR CHOKE, TEM2014AA
L852	23103828	INDUCTOR, BEAD, TEM2121M
L853	23103828	INDUCTOR, BEAD, TEM2121M
L854	23103828	INDUCTOR, BEAD, TEM2121M
L855	23103828	INDUCTOR, BEAD, TEM2121M
L856	23248386	COIL, CHOKE, TLN3481AA
L857	23248386	COIL, CHOKE, TLN3481AA
L870	23103302	FERRITE CHOKE, TEM2011AH
L871	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L872	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L873	23103302	FERRITE CHOKE, TEM2011AH
L874	23103302	FERRITE CHOKE, TEM2011AH
L875	23103302	FERRITE CHOKE, TEM2011AH
L876	23103302	FERRITE CHOKE, TEM2011AH
L877	23103302	FERRITE CHOKE, TEM2011AH
L878	23103302	FERRITE CHOKE, TEM2011AH
L879	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L880	23103886	INDUCTOR, BEAD, TEM2129AM
L881	23103886	INDUCTOR, BEAD, TEM2129AM
L882	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
L883	23248442	COIL, CHOKE, TLN3515AH
L884	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
L885	23289979	COIL, PEAKING, TRF4100AZ
L886	23248442	COIL, CHOKE, TLN3515AH
L887	23248442	COIL, CHOKE, TLN3515AH
L888	23103885	INDUCTOR, CHIP BEAD 3A 22OHM
L889	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
L890	23103887	INDUCTOR, CHIP BEAD, TEM2130AM
P800	23713702	PLUG, 2P 11.88MM W VT
P805	23164965	PLUG, 4P, W-P3504-#02
P811A	23713713	PLUG, 2P 3.96MM VH
P812	23713910	CONNECTOR, CONNECTOR B5P-VH(LF)
P822A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
P823A	23713911	CONNECTOR, CONNECTOR B6P-VH(LF)(SN)
P831A	23713908	CONNECTOR, B3P-VH(LF)(SN)

Location	Part No.	Description
P880A	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
P902A	23713754	PLUG, 3P 2.5MM G, B3B-EH-F1-TV4
Q001	75002038	DC FAN,2806KL-04W-B39-B02
Q842	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q850	23205506	TRANSISTOR, 2SC4081 Q
Q851	23205507	TRANSISTOR, 2SA1576A Q
Q852	23205506	TRANSISTOR, 2SC4081 Q
Q855	23205506	TRANSISTOR, 2SC4081 Q
Q856	23205506	TRANSISTOR, 2SC4081 Q
Q857	23205506	TRANSISTOR, 2SC4081 Q
Q858	23205506	TRANSISTOR, 2SC4081 Q
Q860	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q862	23000823	IC, PHOTO COUPLER, TLP421F(GR)
Q865	23205329	TRANSISTOR, RN1404(F)
Q870	23085389	IC, NJM431L
Q875	75002026	TRANSISTOR, 2SJ304(F)
Q876	23205506	TRANSISTOR, 2SC4081 Q
Q877	75002025	TRANSISTOR, 2SJ668(Q)
Q878	23205506	TRANSISTOR, 2SC4081 Q
R803	76011221	CHIP, 1/20W 220 OHM J
R807	76011822	CHIP, 1/20W 8.2K OHM J
R808	76552560	OXIDE METAL FILM, 1/2W 56 OHM J
R809	76321689	OXIDE METAL FILM, 1/2W 6.8 OHM J
R810	76382330	OXIDE METAL FILM, 1W 33 OHM J
R811	76552101	OXIDE METAL FILM, 1/2W 100 OHM J
R812	76552390	OXIDE METAL FILM, 1/2W 39 OHM J
R813	76366220	CARBON FILM, 1/6W 22 OHM J
R815	76552100	OXIDE METAL FILM, 1/2W 10 OHM J
R816	76366102	CARBON FILM, 1/6W 1K OHM J
R817	76871473	CHIP, 1/8W 47K OHM J
R818	76871473	CHIP, 1/8W 47K OHM J
R819	76871473	CHIP, 1/8W 47K OHM J
R821	76383473	OXIDE METAL FILM, 2W 47K OHM J
R824	76871473	CHIP, 1/8W 47K OHM J
R825	76871473	CHIP, 1/8W 47K OHM J
R826	76871473	CHIP, 1/8W 47K OHM J
R827	76871473	CHIP, 1/8W 47K OHM J
R828	76871473	CHIP, 1/8W 47K OHM J
R829	76871473	CHIP, 1/8W 47K OHM J
R830	76011332	CHIP, 1/20W 3.3K OHM J
R831	76011102	CHIP, 1/20W 1K OHM J
R832	76011103	CHIP, 1/20W 10K OHM J
R833	76011103	CHIP, 1/20W 10K OHM J
R834	76011332	CHIP, 1/20W 3.3K OHM J
R835	76011153	CHIP, 1/2OW 15K OHM J
R836	76011153	CHIP, 1/2OW 15K OHM J
R840	76552562	OXIDE METAL FILM, 1/2W 5.6K OHM J
R841	76011152	CHIP, 1/20W 1.5K OHM J
R851	76383104	OXIDE METAL FILM, 2W 100K OHM J
R852	76011822	CHIP, 1/20W 8.2K OHM J
R853	76011822	CHIP, 1/20W 8.2K OHM J
R854	76871105	CHIP, 1/8W 1M OHM J
R855	76871105	CHIP, 1/8W 1M OHM J
R856	76871105	CHIP, 1/8W 1M OHM J
R857	76871105	CHIP, 1/8W 1M OHM J
R858	76011124	CHIP, 1/20W 120K OHM J
R859	76011223	CHIP, 1/20W 22K OHM J
R860	76011333	CHIP, 1/20W 33K OHM J

Location	Part No.	Description
R861	76011823	CHIP, 1/20W 82K OHM J
R862	76011103	CHIP, 1/20W 10K OHM J
R863	76011102	CHIP, 1/20W 1K OHM J
R864	76011103	CHIP, 1/20W 10K OHM J
R865	76011333	CHIP, 1/20W 33K OHM J
R866	76011332	CHIP, 1/20W 3.3K OHM J
R867	76998333	CHIP, 1/16W 33K OHM
R869	76011103	CHIP, 1/20W 10K OHM J
R870	76011102	CHIP, 1/20W 1K OHM J
R871	76382122	OXIDE METAL FILM, 1W 1.2K OHM J
R873	76552152	OXIDE METAL FILM, 1/2W 1.5K OHM J
R875	76011472	CHIP, 1/20W 4.7K OHM J
R876	76011103	CHIP, 1/20W 10K OHM J
R877	76011473	CHIP, 1/20W 47K OHM J
R878	76011103	CHIP, 1/20W 10K OHM J
R879	76011223	CHIP, 1/20W 22K OHM J
R880	76011223	CHIP, 1/20W 22K OHM J
R881	76011223	CHIP, 1/20W 22K OHM J
R882	76011153	CHIP, 1/2OW 15K OHM J
R883	76011102	CHIP, 1/20W 1K OHM J
R884	76011471	CHIP, 1/20W 470 OHM J
R885	76998332	CHIP, 1/16W 3.3K OHM
R886	76998223	CHIP, 1/16W 22K OHM
R887	76998222	CHIP, 1/16W 2.2K OHM
R888	76011102	CHIP, 1/20W 1K OHM J
R889	76011102	CHIP, 1/20W 1K OHM J
R890	76011223	CHIP, 1/20W 22K OHM J
R899	76004718	METAL GLAZE, 1/2W 8.2M OHM J
S810	23344522	SWITCH, SPVF11
SP661	75002024	SPEAKER ASSY, SPK-1488AO
SP662	75002024	SPEAKER ASSY, SPK-1488AO
SR81	23146590	RELAY, DLS5D1-O(M)0.25W
SR82	23146584	RELAY, DC12V, TV5, DG-3
T801	75002021	FILTER,LF LH28V 5MH 3.2A, ET28-502-01
T802	75002021	FILTER,LF LH28V 5MH 3.2A, ET28-502-01
T810	75002020	TRANSFORMER CHOKE, ST-H0061
T840	75002018	TRANSFORMER, TPW3589AH
T862	75002019	TRANSFORMER CONVERTER, TPW3588AS
U01A	75002005	PC BOARD ASSY, PE0032B1 POWER
U01B	75002006	PC BOARD ASSY, PE0032B2 BALLAST POWER
U01C	75002007	PC BOARD ASSY, PE0032B3 REMOTE EYE
U01D	75002008	PC BOARD ASSY, PE0032B4 SIDE AV INPUT
U01E	75002009	PC BOARD ASSY, PE0032B5 KEY SWITCH(720P 06MODEL)
U01F	75002010	PC BOARD ASSY, PE0032B6 DOOR SWITCH
U01G	75002011	PC BOARD ASSY, PE0032B7 LED(720P 06MODEL)
U02A	75002014	PC BOARD ASSY, PE0033A1 REGULATOR
U02B	75002015	PC BOARD ASSY, PE0033A2 TV-MICRO
U03	75002016	PC BOARD ASSY, PE0034A1 BACK AV
U04	75004946	PC BOARD ASSY, PE0043A1 HM66 SEINE
U05A	75002876	PC BOARD ASSY, PE0044A1 D-TUNER DLP/FPD
V701	75007110	LAMP UNIT, SERVICE, Y66-LMA
W080	75002043	CABLE FFC 24PIN 1.0MM 130MM
W801	23372117	POWER CORD, U/C 125V10A HSV 5 CMC-02P 5
WV01	75004853	CABLE, LVDS
Y101	75002058	MANUAL OM INSTALLATION E/F
Y102	75002057	MANUAL OPERATING ENGLISH/FRENC
Y912	75002040	REMOCON HAND UNIT, CT-90251
Y913	23306614	REMOCON IR, BLASTER GLINK 57H93

TOSHIBA CORPORATION
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